- 2. THE NEW PORTIONS OF THIS STRUCTURE HAVE BEEN DESIGNED IN ACCORDANCE WITH THE PROVISIONS OF THE VIRGINIA CONSTRUCTION CODE, 2009 EDITION.
- 3. THE WORK OUTLINED IN SPECIFICATION SECTION 01410 IS SUBJECT TO SPECIAL INSPECTIONS AS DESCRIBED IN THE TECHNICAL SPECIFICATIONS.
- 4. THE CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL PERMANENT SUPPORTS AND LATERAL BRACING ARE IN PLACE.
- 5. PORTIONS OF THE STRUCTURE NOT ALTERED AND NOT AFFECTED BY THE ALTERATION HAVE NOT BEEN DESIGNED TO COMPLY WITH THE CODE REQUIREMENTS FOR A NEW STRUCTURE.
- BEFORE PROCEEDING WITH WORK WITHIN THE EXISTING STRUCTURE, THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE EXISTING STRUCTURAL CONDITIONS. ANY SHORING OR BRACING INDICATED IS A PARTIAL AND SCHEMATIC REPRESENTATION OF THAT REQUIRED. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE DESIGN AND ERECTION OF ANY AND ALL SAFEGUARDS NECESSARY TO PROTECT THE EXISTING STRUCTURE. THE CONTRACTOR SHALL PROVIDE SHORING, BRACING, AND OTHER SAFEGUARDS TO MAINTAIN ALL PARTS OF THE STRUCTURE IN A SAFE CONDITION AT ALL TIMES DURING THE PROCESS OF DEMOLITION AND CONSTRUCTION
- THE CONTRACTOR SHALL FIELD VERIFY THE DIMENSIONS, ELEVATIONS, AND OTHER REQUIREMENTS NECESSARY FOR THE PROPER CONSTRUCTION AND ALIGNMENT OF THE NEW PORTIONS OF THE STRUCTURE TO THE EXISTING. ANY DIMENSIONS SHOWN OF EXISTING STRUCTURES SHALL BE CONSIDERED AS APPROXIMATE AND ADEQUATE FOR BIDDING PURPOSES ONLY. THE CONTRACTOR SHALL MAKE ALL MEASUREMENTS NECESSARY FOR THE FABRICATION AND ERECTION OF STRUCTURAL MEMBERS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
- 8. DESIGN CRITERIA:

# <u>LIVE LOADS — UNIFORM:</u>

NEW FLOOR (OFFICES)50 PSFPARTITIONS15 PSFROOF20 PSF
SNOW LOADS:  GROUND SNOW LOAD. 25 PSF FLAT-ROOF LOAD. 22 PSF IMPORTANCE FACTOR (Is) 1.1 THERMAL FACTOR (Ct) 1.0 EXPOSURE FACTOR (Ce) 1.0
WIND LOADS:  BASIC SPEED
WALLS, ZONE 5 (10 SF)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$S_{DS}$ 0.16 %g $S_{D1}$ 0.06 %g SITE CLASSIFICATION D.ASSUMED ANALYSIS PROCEDURE: ASSUMED EQUIVALENT FORCE BASIC STRUCTURAL SYSTEM: ORDINARY STEEL MOMENT
RESISTING FRAME RESPONSE MODIFICATION COEFFICIENT (R)

### **DEMOLITION NOTES:**

1. SOME TERMS INDICATED ON PLAN ARE DEFINED AS FOLLOWS:

REMOVE: DETACH ITEMS FROM EXISTING CONSTRUCTION AND LEGALLY DISPOSE OF THEM OFF-SITE.

<u>REMOVE AND SALVAGE</u>: DETACH ITEMS FROM EXISTING CONSTRUCTION AND DELIVER THEM TO THE OWNER READY FOR REUSE.

REMOVE AND REINSTALL: DETACH ITEMS FROM EXISTING CONSTRUCTION, PREPARE THEM FOR REUSE, AND REINSTALL THEM WHERE INDICATED.

EXISTING TO REMAIN: EXISTING ITEMS OF CONSTRUCTION THAT ARE NOT TO BE REMOVED.

- COMPLY WITH LOCAL NOISE, DUST AND EROSION CONTROL REGULATIONS. CONTROL DUST FROM DEMOLITION TO PREVENT IT FROM SPREADING TO OCCUPIED PORTIONS OF BUILDING AND TO AVOID CREATING A NUISANCE IN SURROUNDING AREA.
- OBTAIN REQUIRED PERMITS FROM GOVERNING AUTHORITIES.
- 4. PROVIDE TEMPORARY BARRICADES AND OTHER PROTECTION REQUIRED TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT PROPERTY.
- 5. AT END OF EACH WORKDAY AND DURING INCLEMENT WEATHER, COVER AND PROTECT AREAS OF OPENED UP AND UNFINISHED WORK WITH WEATHER PROOF BARRIERS, AS REQUIRED.
- 6. PROTECT FROM DAMAGE EXISTING ROADS, WALKS, CURBS, LANDSCAPE, AND OTHER SITE AND BUILDING STRUCTURES. REPAIR OR REPLACE DAMAGED ITEMS.
- REMOVE MATERIAL RESULTING FROM DEMOLITION OPERATIONS, EXCEPT AS OTHERWISE INDICATED, AND DISPOSE OF IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS AS PART OF THE WORK. CONTROL RUBBISH, DEBRIS, AND DUST BY APPROVED METHODS, AS REQUIRED BY LOCAL NOISE, DUST, AND EROSION CONTROL REGULATIONS. SOLID WASTE DISPOSAL: IN ACCORDANCE WITH COV 10.1 - 1408.1, (1997) VIRGINIA WASTE MANAGEMENT ACT; ARTICLE 2, SOLID WASTE MANAGEMENT. DISPOSAL OF SOLID WASTE IN OPEN DUMPS IS PROHIBITED.

#### CAST-IN-PLACE CONCRETE NOTES:

- 1. CONCRETE SHALL BE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301 AND 318.
- 2. CONCRETE SHALL BE NORMAL WEIGHT AND SHALL OBTAIN 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.
- 3. REINFORCING MATERIALS SHALL BE AS FOLLOWS:
- A. REINFORCING BARS ASTM A 615, GRADE 60, DEFORMED
- B. WELDED REINFORCING BARS ASTM A 706, GRADE 60.
- C. WELDED WIRE REINFORCEMENT ASTM A 185, WELDED STEEL WIRE REINFORCEMENT: PROVIDE SHEET TYPE, ROLL TYPE IS NOT ACCEPTABLE.
- 5. ALL REINFORCING STEEL AND EMBEDDED ITEMS SUCH AS ANCHOR RODS AND WELD PLATES SHALL BE ACCURATELY PLACED AND ADEQUATELY TIED AND SUPPORTED BEFORE CONCRETE IS PLACED TO PREVENT DISPLACEMENT BEYOND PERMITTED TOLERANCES.
- 6. CONCRETE COVER TO REINFORCING STEEL SHALL CONFORM TO THE MINIMUM COVER RECOMMENDATIONS IN ACI 318-05, UNLESS THE DRAWINGS SHOW GREATER COVER REQUIREMENTS.
- 7. LAP CONTINUOUS REINFORCING STEEL 62 BAR DIAMETERS, UNLESS OTHERWISE NOTED. MECHANICAL COUPLERS IN ACCORDANCE WITH ACI MAY BE USED AT CONTRACTORS OPTION PROVIDED ALL CLEARANCES CAN BE MAINTAINED.

# STRUCTURAL STEEL NOTES:

- 1. STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE "STEEL CONSTRUCTION MANUAL" OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), 13TH EDITION, LRFD.
- 2. STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING SPECIFICATIONS:
- A. STRUCTURAL STEEL SHAPES, PLATES AND BARS (EXCEPT W-SHAPES) -ASTM A 36, Fy = 36 KSI
- B. STRUCTURAL STEEL W-SHAPES ASTM A 992/A572, GRADE 50, Fy = 50 KSI
- C. HOLLOW STRUCTURAL SHAPES (HSS): SQUARE AND RECTANGULAR - ASTM A 500, GRADE B, Fy = 46 KSI
- D. ANCHOR RODS ASTM F 1554, GRADE 36
- E. HIGH STRENGTH BOLTS ASTM A 325 (TYP UON)
- F. WASHERS ASTM F 436
- G. NUTS ASTM A 563
- 3. CONNECTIONS SHALL BE AISC "STANDARD FRAMED BEAM CONNECTIONS" WITH ASTM A 325 BOLTS, DESIGNED FOR ONE-HALF THE UNIFORM LOAD CONSTANTS FOR LATERALLY SUPPORTED BEAMS GIVEN IN PART 3 OF THE "STEEL CONSTRUCTION MANUAL".
- 4. HIGH STRENGTH BOLTS MAY BE TIGHTENED TO THE "SNUG TIGHT" CONDITION IN LIEU OF FULL PRETENSIONING, EXCEPT FOR THE FOLLOWING CONNECTIONS WHICH SHALL BE FULLY PRETENSIONED:
- A. BOLTED CONNECTIONS USING NON-STANDARD HOLES.
- 5. PROVIDE ANGLE (L3x3x1/4) FRAMING AROUND OPENINGS LARGER THAN 6 INCHES IN ANY DIMENSION (INCLUDING ROOF DRAINS) TO SUPPORT STEEL DECK, TYPICAL UNLESS OTHERWISE NOTED, OR DETAILED.
- 6. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1, "STRUCTURAL WELDING CODE -STEEL". WELD ELECTRODES SHALL BE E70XX LOW HYDROGEN. UNLESS OTHERWISE NOTED, PROVIDE CONTINUOUS FILLET WELDS WITH MINIMUM SIZE REQUIRED BY TABLE J2.4, PART 4 OF THE "STEEL CONSTRUCTION MANUAL"
- 7. COORDINATE ALL MEMBER LOCATIONS, UNIT WEIGHTS, OPENING SIZES, AND CURB DIMENSIONS FOR MECHANICAL EQUIPMENT WITH THE ACTUAL EQUIPMENT FURNISHED.
- 8. STRUCTURAL STEEL SCHEDULED TO RECEIVE SPRAYED-ON FIREPROOFING SHALL NOT BE PRIME PAINTED.
- 9. HOT DIP GALVANIZE AFTER FABRICATION THE FOLLOWING:
- A. SHELF ANGLES SUPPORTING MASONRY IN EXTERIOR WALLS.
- B. ALL STEEL EXPOSED TO WEATHER IN THE FINAL CONSTRUCTION.
- C. ITEMS IDENTIFIED AS GALVANIZED ON ARCHITECTURAL OR STRUCTURAL DRAWINGS.

## **STEEL DECK NOTES:**

- 1. STEEL DECK SHALL BE IN ACCORDANCE WITH THE AMERICAN IRON AND STEEL INSTITUTE (AISI). "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" AND THE STEEL DECK INSTITUTE (SDI), "DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS, AND ROOF DECKS."
- 2. STEEL DECK INSTALLATION SHALL COMPLY WITH THE FOLLOWING:
- A. ROOF DECK: 1½" X 22 GAGE TYPE B GALVANIZED. UNLESS OTHERWISE NOTED, ATTACH DECK TO SUPPORTS WITH 5%" DIAMETER PUDDLE WELDS IN ALL RIBS WHERE SIDELAPS OCCUR AND AT 6 INCHES ON CENTER ALONG SUPPORTS WITH A <sup>36</sup>/<sub>2</sub> PATTERN. FASTEN SIDE LAPS WITH #10 SELF—TAPPING HEX HEAD SCREWS AT 1/3 POINTS BETWEEN SUPPORTS ALONG SIDELAPS AND FASTEN EDGEMOST DECK PANEL TO STEEL FRAMING WITH 5/8" DIAMETER PUDDLE WELDS AT SAME SPACING AS SIDELAP FASTENERS.
- 3. STEEL DECK SHALL BE INSTALLED PERPENDICULAR TO SUPPORTS AND SHALL HAVE A MINIMUM OF THREE CONTINUOUS SPANS. END LAPS SHALL OCCUR AT SUPPORTS.
- 4. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3 "STRUCTURAL WELDING CODE -SHEET STEEL".
- 5. PERMANENT SUSPENDED LOADS SHALL NOT BE SUPPORTED BY STEEL ROOF DECK.
- 6. STEEL DECK SCHEDULED TO RECEIVE SPRAYED-ON FIREPROOFING SHALL BE GALVANIZED.

## STRUCTURAL ABBREVIATIONS:

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ES

WELDED WIRE REINFORCING

PLAN LEGEND:	
	MECHANICAL UNIT SUPPORTED ABOVE FRAMING (WEIGHT IN POUNDS)— COORDINATE w/ MECH. DWGS.
=	FLOOR / ROOF OPENING
<u> </u>	COLUMN GRID MARK
	SECTION/DETAIL NUMBER/LETTER
$\left(\begin{array}{c} X \\ SX \end{array}\right) =$	SECTION/DETAIL MARK
	SHEET NUMBER WHERE SECTION/DETAIL IS DRAWN
<del></del>	BEAM SPLICE
± =	FIELD VERIFY
+ =	SHORING POST LOCATION
$\langle \chi \rangle$ =	PLAN NOTE
=	EXISTING CONSTRUCTION

# FULLY SPRINKLERED

D DOCUMENTS CONSTRUCTION DOCUMENTS 100% SUBMITTAL ONSTRUCTION DOCUMENTS 95% SUBMITTA DESIGN DEVELOPMENT 50% SUBMITTAL 06/21/10

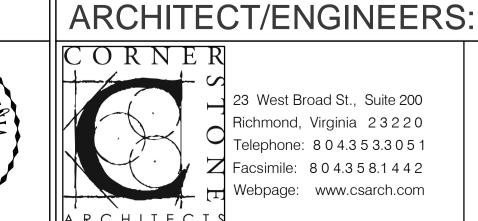
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CA PROJECT 00938.02

GENERAL NOTES

Drawing Title

Approved: Project Director

Project Title
VA MEDICAL CENTER 4E PATIENT WARD **EXPANSION** 

Drawing Number WASHINGTON D.C. 2001

Office of **Facilities** Management

Department of Veterans Affairs

Revisions: **VA FORM 08-6231, OCT 1978** 

SCHEMATIC DESIGN 15% SUBMITTAL

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